5

10

## ABSTRACT

Method and apparatus for allocating resources to a plurality of applications. In various embodiments instrumentation data may be gathered for work requests processed by the applications. An associated workload level may be determined for work requests processed by the applications. For each application an application resource requirement may be determined as a function of the workload levels and a service level metric associated with the application. For each application an assigned subset of resources may be determined as a function of the application resource requirement, a minimization of communication delays between resources, and a bandwidth capacity requirement of the application. The resources may be automatically reconfigured consistent with the assigned subset of resources for each application.